# AGRICOLA:

# SPECIFICATIONS FOR CATALOGING AND INDEXING RECORDS FROM THE NATIONAL AGRICULTURAL LIBRARY

These specifications apply to the July 2006 AGRICOLA Reload

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL RESEARCH SERVICE NATIONAL AGRICULTURAL LIBRARY TECHNICAL SERVICES DIVISION Updated July 2006

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#### **AGRICOLA**

# Specifications for Cataloging and Indexing Records from the USDA National Agricultural Library

#### 1. GENERAL INFORMATION

# 1.1 SUMMARY

The AGRICOLA (**AGRIC**ultural **OnL**ine **A**ccess) database contains bibliographic records of books, serials, audiovisuals, and other materials acquired by the National Agricultural Library (NAL) and cooperating institutions in agricultural and related sciences. There are currently more than 4.1 million records in AGRICOLA. Seventy-eight percent describe journal articles and book chapters, and the remaining twenty-two percent describe monographs, serials, maps, electronic resources, and audiovisuals. Together they provide worldwide coverage of the literature of agriculture.

AGRICOLA provides a machine-readable file of both NAL's cataloging and indexing records. In addition, AGRICOLA contains subfiles of related machine-readable bibliographic citations that have been prepared by sources other than NAL's Cataloging and Indexing branches; for example, the Food and Nutrition Information Center (FNIC) and the American Agricultural Economics Documentation Center (AAEDC). Each contributed a subfile to AGRICOLA covering its particular specialty. The FNIC subfile is now part of AGRICOLA's main file. Other contributors are listed in Table 2.2, Contributors to AGRICOLA.

In order to carry out its congressional mandate for the widest possible dissemination of agricultural information, NAL has in the past and continues to make available the AGRICOLA database to the public. To this end, the National Technical Information Service (NTIS) of the U.S. Department of Commerce distributes both the current and retrospective AGRICOLA files. These files are available to both domestic and foreign users.

A paper version of the AGRICOLA indexing records, known as the Bibliography of Agriculture, was available from Oryx Press from 1942-2000. Rowman and Allanheld issued the paper version of the cataloging records, known as the NAL Book Catalog, which covered records from 1862-1985. Since 1970, AGRICOLA has been available online through various information retrieval brokerage services such as Dialog, OCLC's (Online Computer Library Center, Inc.) FirstSearch system, etc. In 1998, AGRICOLA became freely available via the NAL Web site. OVID (formerly SilverPlatter) produces a CD-ROM version of AGRICOLA.

#### 1.2 NATIONAL AGRICULTURAL LIBRARY

Since 1970, NAL has used an automated system for bibliographic control of library holdings. From 1970 through 1978, the Cataloging and Indexing (CAIN) Software System was used not only for bibliographic control, but also to print the NAL Book Catalog and to produce a monthly sale tape that was distributed to other library information centers and vendors both within the United States and abroad.

In 1979, the MARC/SAMANTHA Software System was implemented. Developed jointly by the Library Systems Branch of NAL, the Communications and Data Services Division of USDA, and Information and Publishing Systems Inc. of Bethesda, Md., SAMANTHA was installed at the USDA Departmental Computer Center in downtown Washington, D.C. and enabled NAL to produce machine readable files in the USMARC Communications Format.

In November 1993, NAL migrated the production of the monthly AGRICOLA sale tape to the VTLS-based (Visionary Technology in Library Solutions) integrated library system, ISIS (Integrated System for Information Services). Minor modifications to the tape and record content included: change in domain space name on tape label to AGRICOLA.NAL from NALSPR.AGRICOLA; the order of subfields of MARC tag 773; the use of multiple 072 tags instead of a single 072 with multiple subfield \$a's; and identifier information in MARC tag 001.

Since November 2003, NAL has been using its new library management system, Voyager, from Endeavor Information Systems, Inc., for entering bibliographic and holdings information for cataloging and indexing records. The AGRICOLA file is selected from the new, corrected, and deleted records entered or modified in Voyager each month. In January 2005, the complete AGRICOLA database was extracted from the Voyager system in MARC 21 format and sent for distribution to NTIS.

In June 2006, Unicode was introduced into AGRICOLA. From June 2006 through January 2007, NAL will send out two files each month using both MARC-8 and UTF-8 character sets. The AGRICOLA file will be distributed exclusively in UTF-8 format as of February 2007. The Library of Congress's website contains the complete specification at: <a href="http://www.loc.gov/marc/specifications/speccharucs.html">http://www.loc.gov/marc/specifications/speccharucs.html</a>

The Technical Services Division is the unit within NAL primarily responsible for entering bibliographic records into the AGRICOLA database. Within Technical Services, the Indexing Branch enters about 5,000 new indexing records a month through the Indexing Subsystem of Voyager. The Cataloging Branch, also within Technical Services, enters approximately 1,000 new cataloging records per month into AGRICOLA. The cataloging records are entered into the OCLC union catalog system located in Dublin, Ohio. These records are then downloaded into NAL's online public access catalog (OPAC).

#### 2. DESCRIPTION

#### 2.1 COMMENTS AND SCOPE

The AGRICOLA database contains bibliographic records of books, serials, audiovisuals, electronic resources, and other materials acquired by the National Agricultural Library (NAL) and cooperating institutions in agricultural and related sciences. There are currently more than 4.1 million records in AGRICOLA. Seventy-eight percent of these describe journal articles and book chapters, and the remaining twenty-two percent describe monographs, serials, maps, electronic resources, and audiovisuals. Together they provide worldwide coverage of the literature of agriculture. AGRICOLA has citations for titles in 114 languages, the majority of which are in English.

AGRICOLA covers the literature on all aspects of agriculture. Table 1 lists the major subject areas represented in the database.

# Table 1. Subject Areas of the AGRICOLA Database

- Animal science and animal products (includes veterinary medicine)
- Biological sciences
- Breeding and genetic improvement
- Economics, business and industry
- Farms and farming systems
- Food and human nutrition
- Forest science and forest products
- Government, law, and regulations
- Health and pathology
- Insects and entomology
- Natural resources, earth and environmental sciences
- Physical sciences
- Plant science and plant products
- Research, technology and engineering
- Rural and agricultural sociology

Records indexed between 1970 and 1978 have the four-character acronym "CAIN" followed by eight digits. CAIN is the format the National Agricultural Library (NAL) used when the Library started making bibliographic records available in machine readable form in 1970. The acronym, CAIN, is a combination of the first two letters of the words **CA**taloging and **IN**dexing. All of the data in the CAIN records were in upper case with control characters indicating how the alphabetic characters were to be displayed; as a result, there may be some anomalies in the converted records with regard to capitalization. The CAIN format was used through the end of 1978, when NAL began using the MARC format for the output of its bibliographic records.

Although licensees of NAL's AGRICOLA database have had access to the CAIN records since 1970, the records were not available in NAL's master online database. The indexing CAIN records were converted to MARC for loading into NAL's AGRICOLA Indexing Database in 2002. The cataloging CAIN records were converted and loaded in the mid 1980s.

Before 1985, in order to identify the various contributors to the AGRICOLA database, a convention was adopted to begin the identification number of each record with a three- or

four-character acronym corresponding to the contributor. Table 2 lists the contributors, their acronym(s) and the type(s) of records they supply (i.e., cataloging and/or indexing). The 8-digit number within the identification number is made unique only by prefixing it with the subfile acronym. New records are identified as cataloging (CAT) or indexing (IND) records.

Table 2. Contributors to AGRICOLA

<u>Acronym</u>	<u>Contributor</u>	Indexing	Cataloging
4-H	Educational Materials Project		
	of the North Central Region	yes	no
ADL	Arid Lands Information Center	yes	no
ADU	Educational Materials Project		
	of the North Central Region	no	yes
AGC	Agricultural Economics, Canada	yes	yes
AGE	American Agricultural Economics		
	Documentation Center	yes	no
BRU	Brucellosis	yes	no
CAIN	NAL cataloging & indexing format ι	ısed	
	from 1970-1978	yes	yes
CAT*	Cataloging Branch, NAL	no	yes
CUY	Biosciences Library	yes	no
ENR	Energy in Agriculture	yes	no
ENV	<b>Environmental Impact Statements</b>	no	yes
FNC	Food and Nutrition Information		
	Center	no	yes
FNI	Food and Nutrition Information		_
	Center	yes	no
GUA	University of Georgia, Library	yes	no
IND*	Indexing Branch, NAL	yes	no
JYD	North Carolina Biotechnology Cente	er yes	no
NON3	Non-OPAC records and cataloging i	records	
	issued from September 1993 t	hrough	
	February 1994	no	yes
ocm	NAL Cataloging Cooperators	no	yes
PAR	Index-Catalogue of Medical and		
	Veterinary Zoology	yes	no
UIU	University of Illinois	no	yes

<sup>\* =</sup> current contributors

Identification numbers on ISIS-produced AGRICOLA records contain the following prefixes: CAT (cataloging records), IND (indexing records), and NON3 (NON-OPAC records and cataloging records issued from September 1993 through February 1994 to avoid duplication during the transition of our older system to ISIS). ISIS was NAL's online public catalog available through the VTLS system and accessible via telnet until December of 2003, when NAL implemented the Voyager library management system.

#### U.S. National Arboretum

## 2.3.5 Field 072 NAL SUBJECT CATEGORY CODE

From 1970 to 1979, the CAIN Subject Category Codes were used. The CAIN Subject Category Code list is attached as Appendix D.

In February 1980, the Library adopted AGRIS-compatible Subject Category Codes. The Subject Category Codes are alpha-numeric codes created by NAL to aid record retrieval. The four-character code broadly categorizes the subject content of the document being described. The present category code list can be found at <a href="http://agricola.nal.usda.gov/help/categorycodes.html">http://agricola.nal.usda.gov/help/categorycodes.html</a>

When creating bibliographic records, catalogers and indexers assign the narrowest terms available from either the Library of Congress Subject Headings or the NAL Thesaurus. The NAL Subject Category Codes group records under broader subject classifications, thereby allowing searchers to retrieve a greater number of relevant records. For example, without the Subject Category Codes, a researcher looking for information on soil fertility, fertilizer technology, and composting would need to search individually for each of these terms; however, category code J500 covers all of these topics.

Beginning in 2003, Subject Category Codes were no longer added to monographic cataloging records; serial records and indexing records continue to carry the codes.

Until November 1993, indexing records contained only one Category Code. Newer indexing records contain as many Category Codes as are needed.

#### 2.3.6 Field 242 TRANSLATED TITLE

Prior to December 31, 1997, catalogers and indexers translated non-English titles; the translated title was recorded in MARC field 242. After December 31, 1997, translated titles appear in field 242 of cataloging and indexing records for non-English language materials only when a translated title appears on the item.

Since NAL catalogers and indexers no longer supply translations for all non-English works, there will be fewer occurrences of field 242 in the AGRICOLA database after 1997.

# 2.3.7 Field 245 TITLE STATEMENT

#### 2.3.7.1 Title Enrichment

Prior to 1985, indexers provided words and phrases that enhanced retrieval and placed them in square brackets in field 245. These enriched titles with bracketed keywords have been moved to MARC field 246. The 245 field has been restored to the original form as found in the journal article or chapter title.

### 2.3.7.2 <u>Erratum</u>

Effective January 1, 1997, NAL began modifying indexing records to indicate when a published erratum exists and to cite the source of that published erratum. The errata policy applies only to journal article records and has not been implemented for cataloging records. Errata appear in AGRICOLA as notations on the records of the original articles. The erratum

notation is entered in the 245 field as bracketed information following the title. When the title of the indexing record displays, AGRICOLA users are informed that the original citation has been amended and are referred to the source of the revised information.

## **Example of Indexing Record with Erratum:**

```
001 3622963
005 20040525234354.0
008 040429e200404 | | | 000 0 eng
016 7_ |a IND43622963 |2 DNAL
035 __ |a 3622963
040 __ |a AGL
072 _0 |a F600
072 _0 |a F200
100 1_ |a Schrick, K.
245 12 | a A link between sterol biosynthesis, the cell wall, and cellulose in Arabidopsis. [Erratum:
2004 May, v. 38, no. 3, p. 562.]
300 ___ |a p. 227-243.
504 __ |a Includes references
650 _3 a Arabidopsis thaliana
650 _3 |a mutants
650 _3 |a phytosterols
650 _3 |a plant development
650 _3 |a biosynthesis
650 _3 |a biochemical pathways
650 _3 |a embryo (plant)
650 _3 |a embryogenesis
650 _3 |a cell walls
650 _3 |a histology
650 _3 |a cellulose
700 1_ |a Fujioka, S.
700 1_ |a Takatsuto, S.
700 1_ |a Stierhof, Y.D.
700 1_ |a Stransky, H.
700 1_ |a Yoshida, S.
700 1_ |a Jurgens, G.
773 0_ |t Plant journal. |g 2004 Apr., v. 38, no. 2 |o 1022655640 |x 0960-7412 |7 nnas |9 jnl47643
852 ___ |a DNAL |i QK710.P68
930 __ |a 20040525 |b 00000000 |c 00000000
945 __ |a IND |d JIT |e 2004/05/03
946 ___ |a Non-US
```

#### 2.3.7.3 Article Retractions

Prior to 1997, retracted articles were identified by the addition of a retraction note in the 500 field. Effective January 1, 1997, NAL began to add the retraction note as bracketed information following the title in the 245 field. As in the errata notice, the retraction notice includes the citation to the source of the retraction.

# **Example of Indexing Record with Retraction:**

```
000 03152caa 2200409 450
001 3614845
005 20040408095124.0
008 040304e20031009||| 000 0 eng
040 __ |a AGL
072 _0 |a L600
072 _0 |a M001
072 _0 |a M120
100 1_ |a Adhikari, S.
245 10 |a Effect of calcium and magnesium hardness on acute copper toxicity to Indian major carp,
Labeo rohita (Hamilton) and catfish, Channa punctatus (Bloch). [Retraction: 2004 Mar. 25, v. 35,
no. 4, p. 311.]
300 ___ |a p. 975-980.
504 __ |a Includes references
650 _3 |a Labeo
650 _3 |a carp
650 _3 |a fingerlings
650 _3 |a Channa punctatus
650 _3 |a catfish
650 3 | a juveniles
650 _3 |a freshwater fish
650 _3 |a mortality
650 _3 |a copper sulfate
650 _3 |a toxic substances
650 _3 |a algicides
650 _3 |a acute toxicity
650 _3 |a calcium carbonate
650 3 | a magnesium
650 _3 |a water hardness
653 __ |a Labeo rohita
773 0_ |t Aquaculture research. |q 2003 Oct. 9, v. 34 no. 12 |o 1022630051 |x 1355-557X |7 nnas |9
jnl53865
852 ___ |a DNAL |i SH1.F8
945 __ |a IND |d NZM |e 2004/03/12
946 __ |a Non-US
```

# 2.3.8 Field 592 - PUBLISHER-SUPPLIED DATA RECORDS

In April 2005, the National Agricultural Library began adding publisher-supplied data records to AGRICOLA's Article Citation Database. Thus far, more than 29,000 records have been added. Using publisher-supplied data allows records to be added to AGRICOLA in a more timely and cost-effective manner and increases the number of records with author-created abstracts.

NAL receives data records from publishers on a weekly basis. The records are converted into MARC 21 format by means of an in-house conversion program. Edits and validations

are performed on the records, and the records are added to AGRICOLA. Links are created from the article records to the journal (host) record.

Currently, NAL receives publisher data records for 119 journal titles; 25 of these titles are being loaded "as is"; that is, with no indexing terms being added to the records. The remaining 94 titles are being indexed cover to cover or selectively. Other publishers will begin submitting records in the near future. All publisher data records, whether indexed or not, will remain permanently in AGRICOLA.

Publisher-supplied data records may differ slightly from NAL-created indexing records. Authors' names may be formatted differently from the way they appear on NAL-created records. Author names in NAL-created indexing records consist of the author's last name and initials, whereas publisher-supplied data records may include full first and/or middle names. Some publisher-supplied records include diacritics and other characters that may not display properly. Publisher-supplied records contain a "dummy" barcode number in field 773 \$0; this occurs because there is no corresponding print version of the publication to which a barcode number has been assigned. Unindexed publisher-supplied records contain a note that reads "Publisher supplied data" in field 592 \$a. Field 773 \$d (publication information) occurs in publisher-supplied data records.

# **Example of Indexing Record with Publisher-Supplied Data**:

```
000 01311caa a22002895 450
```

001 3794796

005 20060429165406.0

**008** 060408e200604 ||| 000 0 eng

016 7\_ |a IND43794796 |2 DNAL

**035** \_\_ | **a** 3794796

**040** \_\_ |a AGL

**100** 1\_ | a Drews, Steven J.

**245** 12 | a A 24-Hour Screening Protocol for Identification of Vancomycin-Resistant Enterococcus faecium.

**300** \_\_ | **a** p. 1578-1580.

**504** \_\_ | **a** Includes references

**520** \_\_ | a We describe a 24-h protocol for the identification of patients who are positive for vancomycin-resistant Enterococcus faecium (VRE), using stool and rectal swab samples and VRE screening broth, automated DNA extraction, and real-time PCR for vanA and vanB genes. Compared to conventional screening methods, this protocol had a high sensitivity and specificity and a negative predictive value.

**592** \_\_ | a Publisher supplied data

**700** 1\_ | a Johnson, Grant

700 1 | a Gharabaghi, Farhad

700 1\_ |a Roscoe, Margaret

**700** 1\_ | a Matlow, Anne

700 1\_ |a Tellier, Raymond

700 1\_ |a Richardson, Susan E.

**773** 0\_ |**t** Journal of clinical microbiology. |**d** American Society for Microbiology |**g** 2006 Apr., v. 44, no. 4 |**o** DUM0003892 |**x** 0095-1137 |**7** nnas |**9** jnl6562

```
852 __ |a DNAL |i QR46 .J6

930 __ |a 20060408 |b 20060529 |c 00000000

946 __ |a Other US
```

# 2.3.9 Fields 6XX SUBJECT ADDED ENTRIES

Bibliographic records produced by NAL's Cataloging Branch and its cooperators contain <u>Library of Congress Subject Headings (LCSH)</u>. Topical LCSH terms are recorded in MARC field 650, with a second indicator of 0. LCSH terms having a geographic subfield \$a are recorded in MARC field 651. Cataloging records may also contain other MARC 6XX fields (600, 610, 611, 630, 653, and 655), as appropriate. Cataloging records may contain multifaceted 6XX fields, using subfields as provided for by MARC 21. Some cataloging records, primarily those for monographs in series ("analytics"), may have no subject headings at all.

Most of the CAIN records do not have subject terms. Instead, a technique known as title enrichment was used, where alternate terms for words in the title were placed in brackets within the title of an article. During the conversion of these records into MARC format, these phrases and the journal article title were moved into field 246 (Varying form of title). The original journal article title without the enrichments is in field 245 (Title statement).

Some CAIN records produced by NAL cooperators do have subject terms. During the load, these terms were validated against the CAB Thesaurus. If they matched a CAB term they were put into field 650 (Subject added entry - Topical term) or 651 (Subject added entry - Geographic term). If they did not match they were put into field 653 (Index term - Uncontrolled).

Beginning in 2003, all full level indexing records (those produced by NAL's Indexing Branch) have been assigned subject terms from the NAL Thesaurus (NALT). The NALT can be found at: <a href="http://agclass.nal.usda.gov/agt/agt.shtml">http://agclass.nal.usda.gov/agt/agt.shtml</a>. The 2006 edition is the fifth edition of the NAL Agricultural Thesaurus. A complete history of the NALT can be found at Appendix E. NALT topical terms are recorded in MARC field 650, with a second indicator of 3. NALT geographic terms are entered in MARC field 651, also with a second indicator of 3. Terms that had previously been assigned from the CAB Thesaurus (CABT) were converted retrospectively to corresponding NALT terms in the entire file of indexing records. CABT terms that did not correspond to an equivalent term in NALT were moved to MARC field 653 for uncontrolled subject terms.

In November 2004, as part of an effort to reduce existing indexing backlogs and to improve AGRICOLA's currency, NAL implemented a new, faster approach to AGRICOLA indexing, known as turbo indexing. With turbo indexing, indexers assign subject terms only from the title, abstract, and purpose statement of each journal article. A limit is placed on the amount of time an indexer spends processing each journal article.

#### 2.3.9.1 Use of MARC Field 653 for Identifiers

The <u>NAL Thesaurus</u> and <u>Library of Congress Subject Headings</u> are the sources of the principal subject descriptors employed in the AGRICOLA database and constitute a strong unifying factor for AGRICOLA. From time to time, it is also necessary to employ subject terms which are not contained in these two sources. When this situation arises, these terms are recorded in MARC field 653. We encourage AGRICOLA users to treat terms

# Typical Cataloging Record with LCSH Assigned

```
000 01382cam 2200373 a 450
001 928364
005 20041210220045.0
008 041210s2004 wiua b s001 0beng
010 ___ |a 2103020570
016 7_ |a CAT30928364 |2 DNAL
035 __ |a (OCoLC)ocm93131229
035 __ |a 928364
040 __ |a DLC |c DLC |d AGL
020 __ |a 0299196402 (alk. paper)
043 ___ |a n-us--- |a n-us-wi
070 0_ |a E748.N43 |b C47 2004
049 __ |a AGLL
100 1_ |a Christofferson, Bill.
245 14 | a The man from Clear Lake: | b Earth Day founder Gaylord Nelson / | c Bill
Christofferson.
260 ___ | a Madison, Wisc. : |b University of Wisconsin Press, |c c2004.
300 ___ |a vii, 403 p. : |b ill. ; |c 24 cm.
504 | a Includes bibliographical references (p. 389-392) and index.
600 10 | a Nelson, Gaylord, | d 1916-
650 _0 |a Legislators |z United States |v Biography.
610 10 | a United States. | b Congress. | b Senate | v Biography.
650 _0 |a Environmentalists |z United States |v Biography.
650 0 | a Conservationists | z United States | v Biography.
650 _0 |a Earth Day |x History.
650 _0 |a Environmentalism |z United States |x History |y 20th century.
650 _0 |a Environmental protection |z United States |x History |y 20th century.
651 _0 |a United States |x Environmental conditions.
650 _0 |a Governors |z Wisconsin |v Biography.
930 __ |a 20041210 |b 00000000 |c 00000000
946 __ |a Other US
```

# 2.3.10 Field 773 HOST ITEM ENTRY

MARC field 773 is used to convey the "host item" data. The host item may be thought of as the physical volume which contains the bibliographic unit being described (i.e. the "target item"). For example, if the bibliographic record describes a journal article (the target item), then field 773 provides information about the journal issue in which the article appears. If the target item is a book chapter, then field 773 contains data concerning the monograph in which the chapter appears. If the target item is an item or a subunit of a miscellaneous special collection, then field 773 contains data concerning the entire collection, or, as in the case of some item level records, the subunit of the collection.

NAL uses field 773 primarily for indexing records (in MARC terms these are described as "component parts"). Indexing or component part records may be distinguished by examining the MARC record leader, positions 6 and 7 (counting from 0). A value of "aa" in these positions indicates a component part indexing record.

#### e.g., [LDR] 00000naabb2200000bbb4500

The presence of an "aa" in these positions indicates that the bibliographic record describes either a journal article or a book chapter (or at least is treated as such by NAL). Whether the item described is a journal article or book chapter is indicated by the value in the last position of the control subfield (\$7) of field 773 (either "s" or "m" -- see below). Additionally, if the item described is part of a collection (unit or subunit), this is indicated by either "bc" or "bd" in the last two positions of the control subfield. The value in the last position of the control subfield (\$7) of field 773 (either "c" or "d" -- see below) indicates whether the host item is a subunit or the entire collection. Field 773 replaces the function previously performed by fields 860 and 861 (now obsolete).

Because it is so critical to the proper processing of AGRICOLA records, field 773 will be examined in detail.

```
773 Host item entry
```

Indicator 1: 0 Indicator 2: blank \$7 Control subfield

\$9 Journal linking record for indexing records; links article to the issue of the journal

\$a Main entry

\$b Edition

\$d Place, publisher, and date of publication

\$g Relationship information

\$k Series data for related title

\$o Issue record barcode number

\$p Serial title abbreviation

\$r Report number (MARC 088)

\$s Uniform title

\$t Title

\$u Standard technical report number (MARC 027)

\$x ISSN

\$y CODEN

\$z ISBN

The indicators for field 773 are machine-generated and have no particular significance in NAL's implementation.

As previously stated, the control subfield (\$7) provides important information concerning the document type. The control subfield consists of four lower case alphabetic characters; the last character has the greatest significance for AGRICOLA users.

```
[773] Ob $7nnas (journal article)
[773] Ob $7nnam (book chapter)
```

If the last value of \$7 is "s" then the document type is a <u>journal article</u> (first case, above). If the last value of \$7 is "m" then the document type is a <u>book chapter</u> (second case, above). If the third and fourth values contain "bc" or "bd" the document type is a <u>collection item</u>. For example:

```
[773] 0½ $7nn<u>bc</u> (collection item; host item is a collection) [773] 0½ $7nn<u>bd</u> (collection item; host item is a subunit)
```

A "c" in the fourth position indicates that the host item is a collection. A "d" in the fourth position indicates that the host item is a subunit.

To discuss the other subfields it is useful to examine a typical record:

### Example of Journal Article Record

```
000 02447caa 2200385 450
001 3651470
005 20041207220350.0
008 041022e20041006||| 000 0 eng
016 7_ |a IND43651470 |2 DNAL
035 __ |a 3651470
040 __ |a AGL
072 _0 |a F831
072 _0 |a S200
072 _0 |a H000
100 1_ |a Kim, Y.M.
245 10 |a Anthraquinones isolated from Cassia tora (Leguminosae) seed show an antifungal
property against phytopathogenic fungi.
300 ___ |a p. 6096-6100.
504 __ |a Includes references
650 _3 |a Senna tora
650 _3 |a seeds
650 _3 | a anthraquinones
650 _3 | a antifungal properties
650 _3 |a plant pathogenic fungi
650 _3 |a botanical pesticides
650 _3 |a pesticidal plants
700 1_ |a Lee, C.H.
700 1_ |a Kim, H.G.
700 1_ |a Lee, H.S.
773 0_ |t Journal of agricultural and food chemistry. |g 2004 Oct. 6, v. 52, no. 20 |o
1022635697 |x 0021-8561 | 7 nnas | 9 jnl45611
852 __ |a DNAL |i 381 J8223
930 __ |a 20041207 |b 00000000 |c 00000000
939 __ |a 20041022 |b 20041101 |c 00000000
945 __ |a IND |d RHF |e 2004/12/07
946 | a Other US
Notes on subfields for journal articles (773):
```

votes on subficies for journal articles (175)

# \$7: Control subfield

```
[773] 0b $7nnas (journal article)
[773] 0b $7nnam (book chapter)
```

# \$9: Journal linking record

\$a: Main Entry: The primary access point of the host item. Comes from the 1XX field of the host cataloging record.

\$g: Relationship Information: Provides date, volume, issue number concerning the journal <u>issue</u> in which the journal article appears. This subfield is <u>mandatory</u> for journal article records. It does <u>not</u> appear for book chapters.

\$o: Issue record barcode number

\$p: Serial Title Abbreviation: The abbreviated title of the serial in which the journal article appears.

\$t: Title: The full journal title in which the journal article appears. In field 773, subfield t is required if available.

\$x: International Standard Serial Number (ISSN): The 8-digit hyphenated identifying code for a serial (e.g., 0095-2494). This subfield occurs as appropriate and when available.

\$y: CODEN: A 5- or 6-character code for the journal title. This subfield occurs as appropriate and when available.

Pagination information is contained in MARC field 300. This is true of both journal articles and book chapters.

A book chapter record is very similar to a journal article record, but has important differences. It is useful to examine a typical book chapter record, as well.

# **Example of Book Chapter Record**

```
000 01079naa 2200301 450
001 2533944
008 860107t19851984 ab 00000 eng d
016 7_ |a IND86002584 |2 DNAL
035 __ |9 0822-01260
040 __ |a AGL
072 __ |a F120
072 __ |a X600
100 1 |a Gray, T.I. Jr.
245 13 |a An application of advanced very high resolution radiometer data to monitor the world's
agriculture.
300 __ |a p. 387-398. |b ill., maps.
500 | a Paper presented at the "Interactive International Symposium on Applications of Remote
Sensing for Rice Production," Sept 9/11, 1981, Secunderabad, India.
504 __ |a Includes references.
650 _3 |a Oryza sativa
650 _3 | a radiometry
650 _3 |a data analysis
650 _3 |a Landsat
653 __ |a lacie
653 __ |a agristars
700 1_ |a McCrary, D.G.
773 0 | t Applications of remote sensing for rice production / edited by Adarsh Deepak, K.R. Rao. |d
Hampton, Va.: A. Deepak Pub., [1985], c1984. |z 0937194034 | 7 nnam
852 __ |a DNAL |I SB191.R5I584
930 __ |a 00000000 |b 19860107 |c 00000000
946 __ |a Other US
```

Notes on subfields for book chapters:

\$7: Control subfield

[773] Ob \$7nnas (journal article) [773] Ob \$7nnam (book chapter)

\$a: Main entry heading.

\$b: Edition.

\$d: Place, Publisher and Date of Publication: Imprint information concerning the title described in \$t.

\$g: Relationship Information: There is *no* \$g for book chapters. This subfield is only appropriate in the case of serial titles.

\$k: Series Data for Related Title.

\$r: Report Number (MARC 088).

\$t: Title: contains the full "statement of responsibility" for the host book. This provides additional identification and verification information for the user.

\$z: International Standard Book Number: A 10- or 13-digit identifying code for a book (e.g., 925102992X). This subfield appears as appropriate and when available.

#### Collection Item Records:

An item record or subunit record of a miscellaneous special collection contains elements that are found in both book chapter and journal article records. A typical item record would be:

### **Example of Collection Item Record**

```
000 01367naa 2200469 450
001 3170573
008 960729s1993 xxu f00 0 eng
016 7_ |a IND20523374 |2 DNAL
035 ___ | 9 0523-37460
040 __ |a AGL
072 __ |a X500
072 __ |a P120
100 1_ |a Dunn, R.O.
245 10 |a Solubilization and related phenomena in nonaqueous triolein/unsaturated long
chain fatty alcohol/methanol solutions.
300 __ |a 16 p.
500 ___ |a Indexed from reprint: Journal of Dispersion Science and Technology. v. 14 (1), p.
504 __ |a Includes references
650 _3 |a triolein
650 _3 |a methanol
650 _3 |a fatty alcohols
650 _3 |a solutions
650 _3 |a solubilization
650 _3 |a viscosity
650 _3 |a fuels
650 _3 |a solubility
650 _3 |a physicochemical properties
653 __ |a micelles
653 ___ |a oil miscible concentrates
653 __ |a unsaturated long chain fatty alcohols
653 __ |a miscible phase activity
653 ___ |a hybrid fuels research
653 __ |a miscibility
653 __ |a interfacial tension
653 ___ |a diesel fuels
700 10 | a Schwab, A.W.
700 10 | a Bagby, M.O.
773 0_ |t ARS reprints collection. |g 1993. [559] |7 nnac |9 iss612
790 __ |a 0747-09960
852 ___ |a DNAL |i aS441.A77
930 __ |a 19960801 |b 19960808 |c 00000000
945 __ |a IND |d RAE
946 __ |a USDA
```

Notes on subfields for collection items:

\$7: Control subfield

\$9: Journal linking record

\$a: Main Entry: The main entry of the host item.

\$d: Place, Publisher and Date of Publication: Imprint information concerning the title described in \$t.

\$g: Relationship Information: The \$g is used for multivolume collections to identify the location of items or subunits.

\$t: Title: For item and subunit records, \$t contains the full "statement of responsibility" for the host collection. This provides additional identification and verification information for the user.

#### 2.3.11 Field 852 HOLDINGS LOCATION/CALL NUMBER

MARC field 852 has been used since January 1985 to convey holdings location and call number information. Field 852 is repeatable and allows AGRICOLA to provide an institutional holdings symbol linked to that organization's call number. This is especially important for records input by contributors other than NAL. Field 852 replaced the function of the 860/861 with embedded 070/090 fields in indexing records. In cataloging records, it provides a convenient method of linkage between a holding institution (either NAL or a contributor) and its call number.

In the first example above, the holding institution is the National Agricultural Library (whose NUC holding symbol is "DNAL").

In the second example above, the holding institution is the Arid Lands Information Center at the University of Arizona (whose NUC holding symbol is "AzU-A").

\$b: This subfield may contain a sublocation (where the document is held) within the institution reported in subfield \$a. The sublocation symbol is only unique within the main institution reported in subfield \$a.

\$i: This subfield contains the call number for the document corresponding to the institution designated in \$a.

Multiple 852 fields may occur within a single bibliographic record, and in such instances will provide information about holdings at more than one location.

### 2.3.12 Field 856 ELECTRONIC LOCATION AND ACCESS

Field 856 provides the information needed to locate and access an electronic resource. AGRICOLA cataloging records for remote electronic resources contain URLs in field 856 linking directly to full-text documents. Indexing records for remote electronic resources contain URLs linking either to full-text articles or to publisher Web sites. Although URLs are updated on a regular basis, broken links may occur in bibliographic records.

# 2.3.13 Field 946 Subfield \$a DOCUMENT SOURCE CODE

In December 2003, when Voyager was implemented, field 946 replaced field 910. The purpose of field 946 is to provide a means for the identification and grouping of publishers of particular importance to the agricultural community and to the National Agricultural Library. The document source names used in field 946 of AGRICOLA records are listed in Table 3 below:

### Table 3. Document Source Names

- USDA (all documents published by the Dept. of Agriculture)
- State experiment station
- State extension service
- FAO (Food and Agriculture Organization of the UN)
- Translation (selected research documents)
- Other US (all U.S. publications not otherwise tagged)
- Non-US (published in a foreign country)

# Historical Note

In January 1980, in order to comply with USMARC standards, the use of field 069 for this purpose was discontinued and field 910 was adopted. From January 1979 to January 1980, a single-digit document source code was recorded in MARC field 069, subfield \$a (see Table 4). The code was applied to reflect any USDA affiliation relationship present. For example, if the document was published outside the U.S., but the journal article being described was authored by a USDA employee, then the code "1" would have been applied. For a brief period, subfields \$b and \$c were added to field 069.

Table 4. Single-Digit Document Source Code

- 1 USDA imprints
- 2 State Agricultural Experiment Station imprints
- 3 State Agricultural Extension Service imprints
- 4 FA0 imprints
- Translations of articles (to be used only with documents to be included in the Translations File in the Public Catalog and the Translation Section of the Monthly Catalog)
- 6 All other US imprints not to include types 1, 2 or 3
- 7 All foreign imprints

For cataloging records, an agency source code was entered in field 910, subfield w. This code denoted the organizational unit responsible for the publication as author, publisher, or sponsor.

For indexing records, an agency source code was entered in field 100, subfield u. This code denoted the organizational affiliation of the primary author of the document.

# 3. AGRICOLA RECORD DISTRIBUTION SYSTEM (ARDS)

# 3.1 BACKGROUND

NAL produces an AGRICOLA monthly file and distributes it to AGRICOLA subscribers through the National Technical Information Service (NTIS). Each monthly file contains the new, corrected, and deleted bibliographic records produced by the NAL using the Voyager library system.

NAL has been delivering the AGRICOLA monthly file in MARC21 format using the MARC-8

# Marking:

ARDS updates the 930 tag in the Voyager system to track the status of AGRICOLA records. The program also keeps track of the history of the selection and issuance of the records.

## Statistics:

ARDS provides the following statistics on the AGRICOLA monthly file's transmittal sheet:

The number of records produced for AGRICOLA by the Cataloging Branch, the Indexing Branch, and NAL cooperators.

- A breakdown of created, corrected and deleted record by record type.
- A breakdown of records by record status.
- List of AGRICOLA IDs of corrected and deleted records.

#### 3.4 CORRECTED AND DELETED AGRICOLA RECORDS

The National Agricultural Library began issuing corrected records to the AGRICOLA database in January 1997. Corrected records contain a "c" in the leader, character position 5. NAL provides a separate ASCII file of accession numbers for retrospective records to be deleted. Both corrected records and records to be deleted are included on the monthly sale file.

#### 3.5 SPECIAL INSTRUCTIONS

Two types of problems that may occur in AGRICOLA bibliographic records are data entry errors and format errors in the file caused by either hardware or software defects. If a data entry error is discovered in any record, the user should either call or write to Database Manager, Information Systems Division, National Agricultural Library, Beltsville, Maryland 20705, Telephone: (301) 504-6813. If a file or record is unreadable, contact the National Technical Information Service (<a href="http://www.ntis.gov/">http://www.ntis.gov/</a>).